

Hunters Point Naval Shipyard

Radiological Retesting - Background Sampling

Hunters Point Shipyard Citizens Advisory Committee
Environmental & Reuse Subcommittee Meeting
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Purpose



- Overview of background radiation
- Key components of the HPNS Background Sampling Plan for soil
 - Rationale for conducting sampling
 - Methodology for sampling procedures
 - Sampling location areas
- Next steps
- Resources for more information



Background Radiation Overview



What is BACKGROUND radiation?

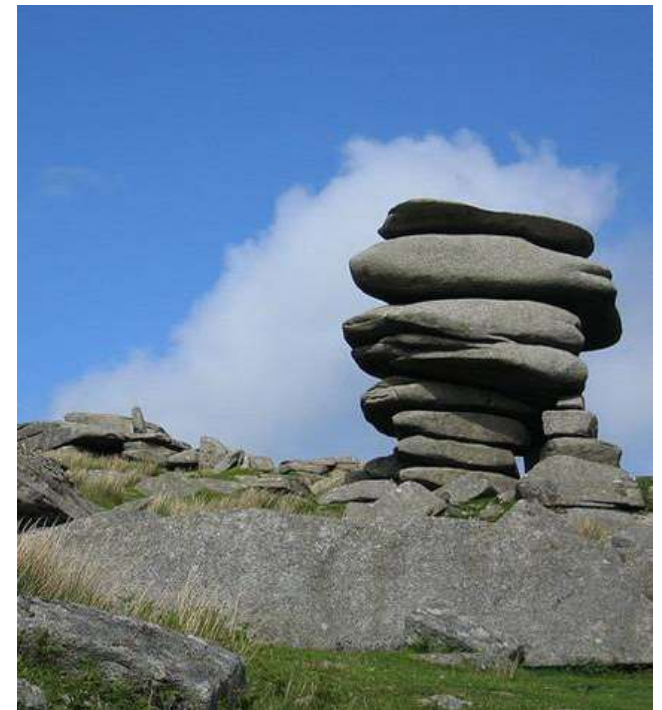
- Levels of radiation in the environment resulting from various natural and man-made materials

What factors make identifying background difficult for HPNS?

- Affected by other human actions - construction, fallout
- History of soils

Why take background samples?

- To understand naturally-occurring radioactivity and/or radioactivity as a result of activities unrelated to historical shipyard operations
- To establish a baseline for comparison
- To objectively evaluate the influence of human activity and/or shipyard operations



HPNS Background Radiation Sampling Plan: Rationale and Methodology Overview



Rationale

- Previous background radiation data was collected by Tetra Tech EC (TtEC)
- TtEC data has come into question
- The Navy is committed to collecting accurate background radiation levels for radionuclides of concern (ROCs) at HPNS

Methodology

- Concurrent soil sample collection for all ROCs at HPNS
 - On-site at HPNS
 - Off-site in community
- Review of additional resources to establish regional background radiation and radioactivity levels

HPNS Background Radiation Sampling Plan: On-site Methodology



Map of on-site background sampling locations



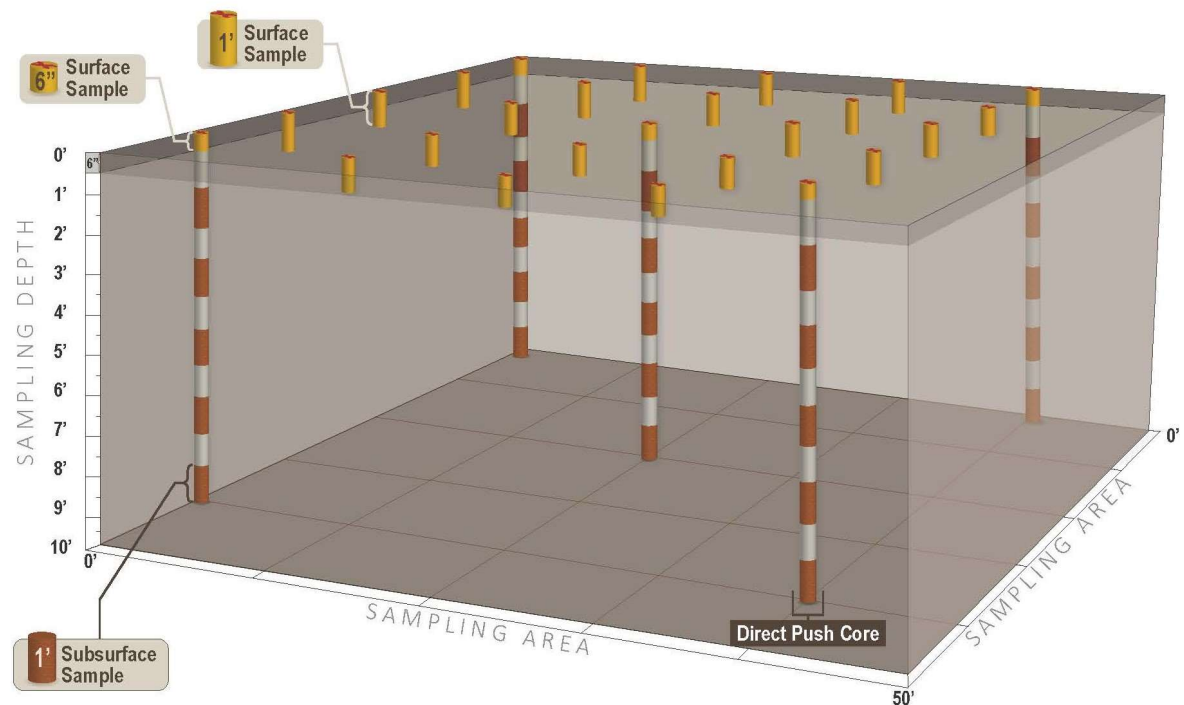
- On-site soil samples taken at **four** base locations
- Sites located in various areas across HPNS for diversity
- Sample locations not associated with historical radiological shipyard activities

HPNS Background Radiation Sampling Plan: On-site Methodology



On-site Soil Samples

- Taken at **four** separate site locations not associated with historical radiological shipyard activities
- 25 surface soil samples
x 4 sites
= **100 surface soil samples**
- 25 subsurface soil samples
x 4 sites
= **100 subsurface soil samples**



Cross-section of surface and subsurface soil samples planned

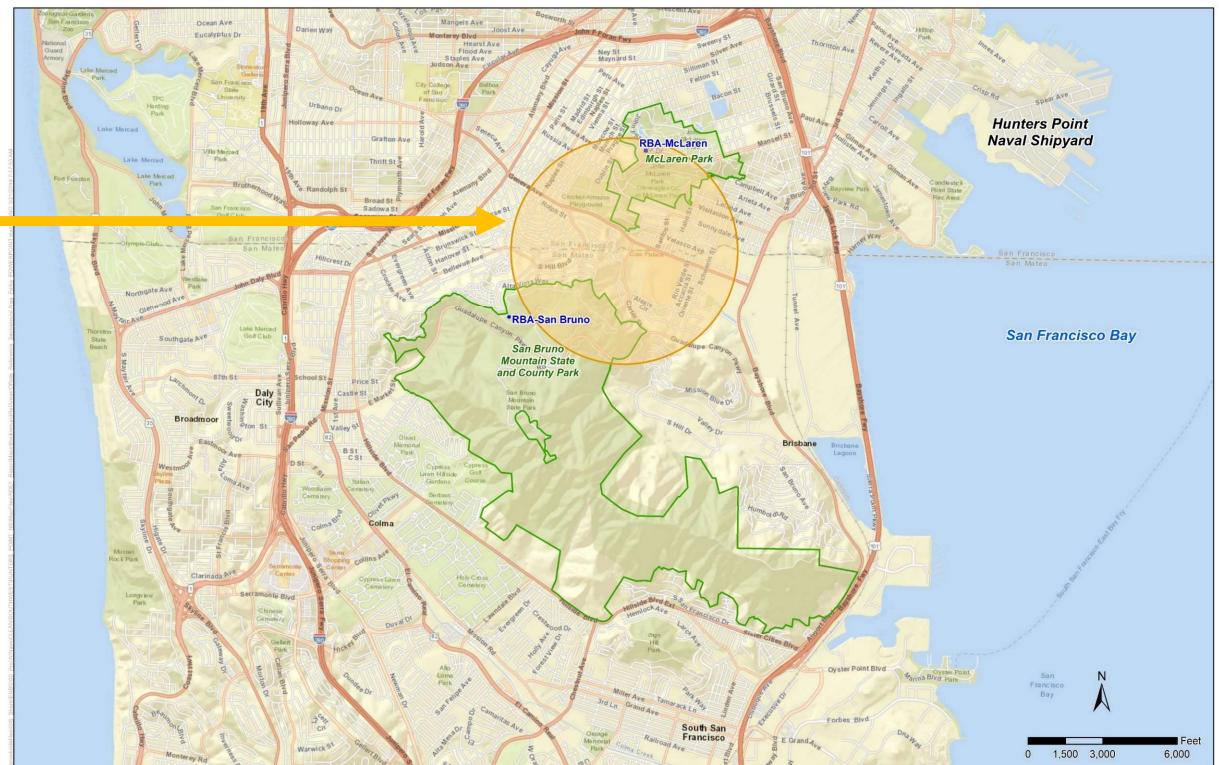
HPNS Background Radiation Sampling Plan: Off-site Methodology



Map of approximate location of off-site background sampling

Off-site Soil Samples

- Taken at location in an undeveloped area and unaffected by shipyard operations
 - **25 surface soil samples**
 - 25 subsurface soil samples x 3 depth intervals
-
- 75 subsurface soil samples**



Background Sampling and Parcel G Rework Schedule



- May 2019 - Finalize background sampling locations
- May 2019 - Begin background fieldwork
- August 2019 - Complete background fieldwork
- Winter 2019 – Begin retesting in Parcel G



Access Navy Resources For More Information

Contact HPNS program management

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May 18, 2019
*first tour at 9:00 a.m.

Upcoming Navy Meetings

September/October 2019
*date pending receipt of
background results

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